ABSTRACT

A network is realized having GMPLS and IP/MPLS mixed, in which an

IP/MPLS node can be operated as is without replacing the IP/MPLS node with a node

having a GMPLS function, even if the GMPLS and IP/MPLS are mixed. To match with

5   the protocol of the IP/MPLS node outside of a GMPLS cloud, the GMPLS+IP/MPLS

node (edge) establishes a PSC-LSP between GMPLS+IP/MPLS nodes (edge), uses the

PSC-LSP as an IP/MPLS link from the viewpoint of the IP/MPLS node, and operates

signaling of an MPLS-LSP establishment requested from the IP/MPLS.